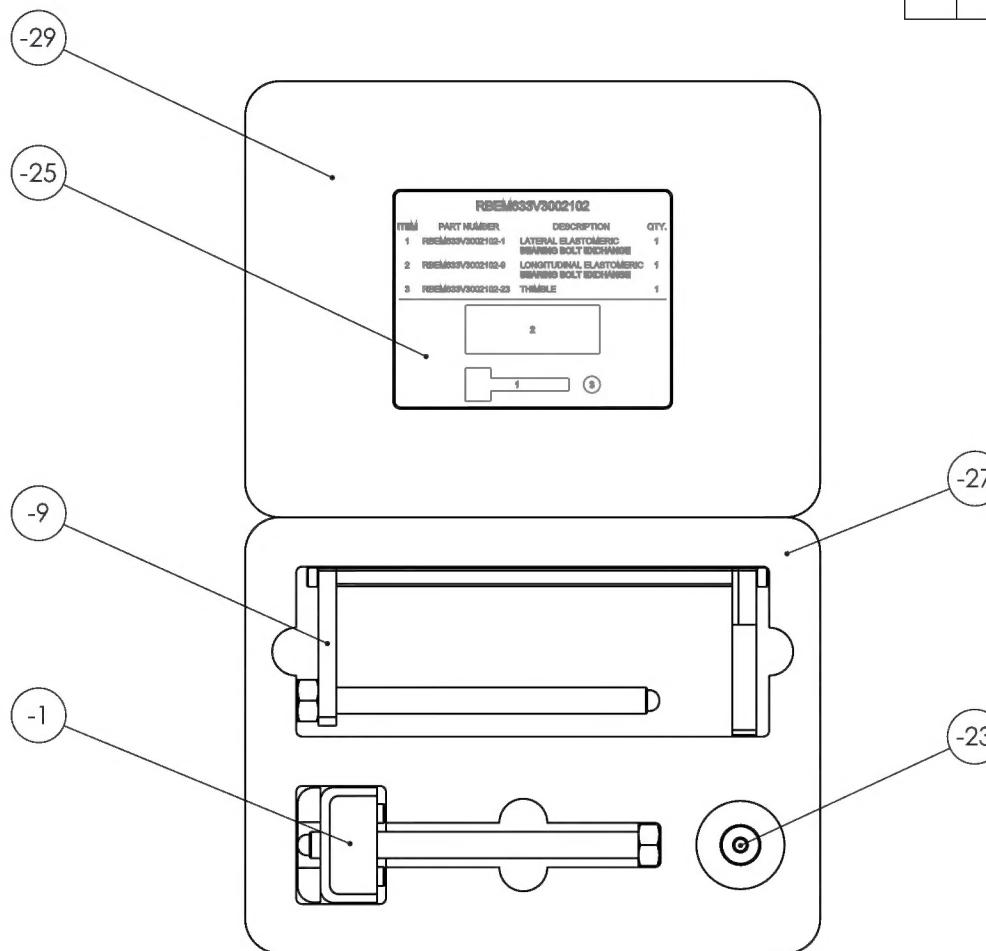


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	6/17/2016	DPD	JAG
2	16-0180	-13. -15 CH'D MAT'L WAS 1018/1020 CR IS A36/1018/1020 HR. -27. -29 CH'D MAT'L WAS Y-20, BLACK IS ETHAFOAM 220, BLACK. CH'D VENDOR WAS (I.R. SPECIALTY) IS (CASE SOLUTIONS). -27 DELETED DIM 4X R.72. ADDED DIMS 4X 1.00, 4X 45°. -29 DELETED DIM 4X R.45. ADDED DIMS 4X .63, 4X 45°.	10/20/2016	DPD	JAG



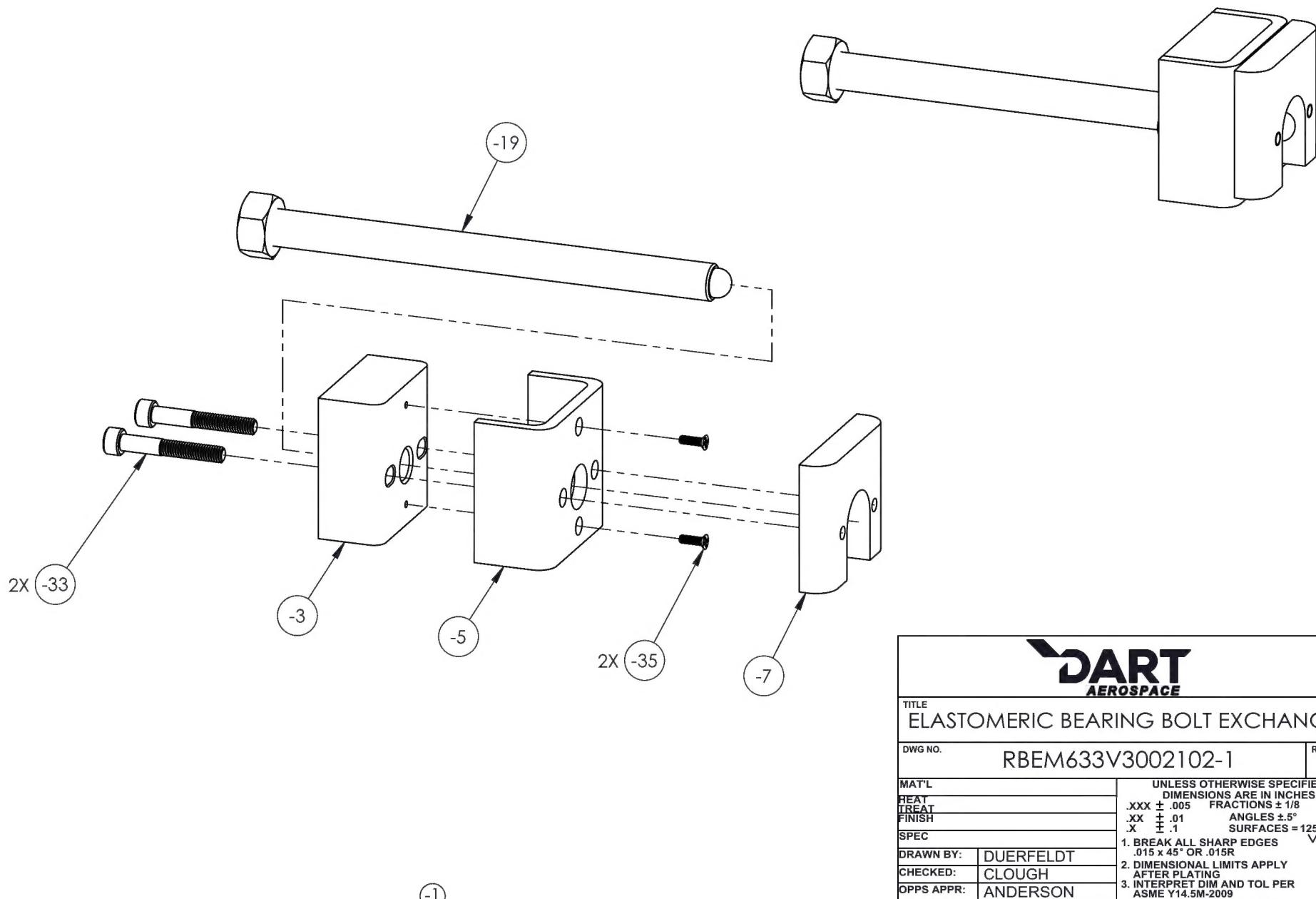
ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X			-1	1	LATERAL ELASTOMERIC BEARING BOLT EXCHANGE			2
	1			-3		LATERAL BASE	1018/1020 CR		3
	1			-5		LATERAL PAD	WHITE DELRIN/ACETAL		4
	1			-7		LATERAL CLAMP PLATE	6061		5
X				-9	1	LONGITUDINAL ELASTOMERIC BEARING BOLT EXCHANGE			6
	1			-11		LONGITUDINAL BACK PLATE	1018/1020 CR		7
	1			-13		LONGITUDINAL BASE PLATE	A36/1018/1020 HR		8
	1			-15		LONGITUDINAL BOLT PLATE	A36/1018/1020 HR		9
	1			-17		LONGITUDINAL PAD	WHITE DELRIN/ACETAL		10
X	1	1		-19		BOLT			11
1				-21		THREADED ROD	B7	M14 X 2mm (MCMASTER-CARR #93325A340) MODIFIED	12
				-23	1	THIMBLE	6061		13
				-25	1	PLACARD	PLASTIC		14
			B/O	-27	1	BOTTOM FOAM	ETHAFOAM 220, BLACK	3.95 X 9.08 X 11.98 (CASE SOLUTIONS)	15
			B/O	-29	1	TOP FOAM	ETHAFOAM 220, BLACK	1.20 X 9.08 X 11.98 (CASE SOLUTIONS)	16
1			B/O	-31		HEX NUT	STEEL	M14 X 2mm (MCMASTER-CARR #90592A032)	11
	2	B/O	-33			SOCKET HEAD CAP SCREW	STEEL	M6 X 1mm X 40mm (MCMASTER-CARR #90128A268)	2
	2	B/O	-35			FLAT HEAD PHILLIPS MACHINE SCREW	STEEL	M3 X 0.5mm X 10mm (MCMASTER-CARR #91420A120)	2
4		B/O	-37			SOCKET HEAD CAP SCREW	STEEL	M6 X 1mm X 25mm (MCMASTER-CARR #90128A265)	6
		B/O	-39	1		CASE	PLASTIC	PELICAN #APP-1400-E	N/S
		B/O		1		PLACARD	ALUMINUM	RB41011	N/S
ASSY -19	ASSY -9	ASSY -1							

NOTE:  
REF. AIRBUS T/N: M633V3002101.

TITLE		REV
ELASTOMERIC BEARING BOLT EXCHANGE		2
DWG NO.	RBEM633V3002102	REV 2
MAT'L		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH		.XX ± .01 ANGLES ± 5°
SPEC		X ± .1 SURFACES = 125
DRAWN BY:	DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED:	CLOUGH	.015 x 45° OR .015R
OPPS APPR:	ANDERSON	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
QA APPR:	LINDSAY	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
APPROVED:	GILBERT	USED ON MODEL
SCALE	1:4	DATE 4/6/2016
		SHEET 1 OF 16

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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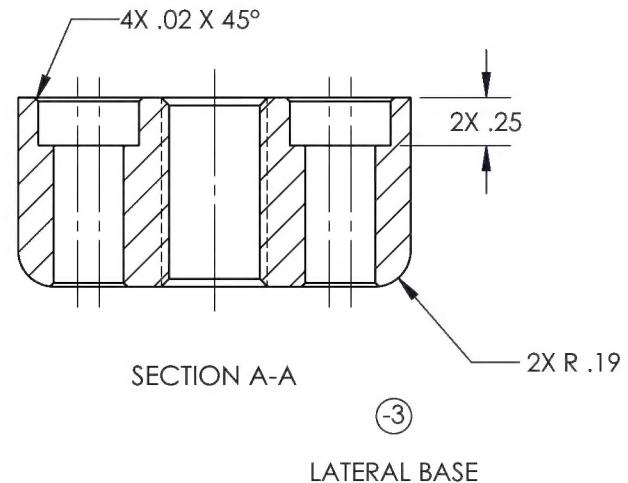
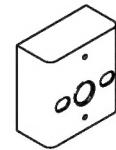
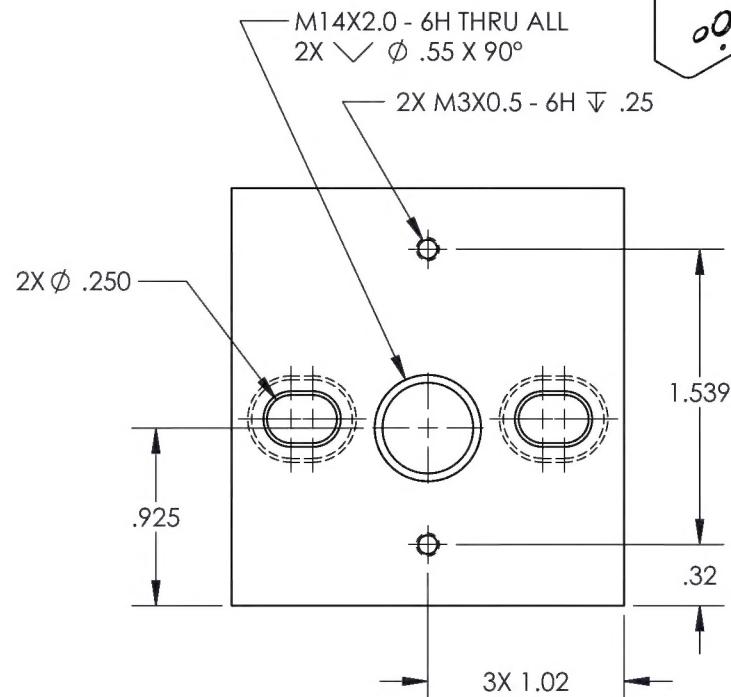
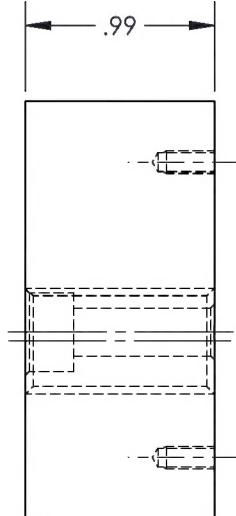
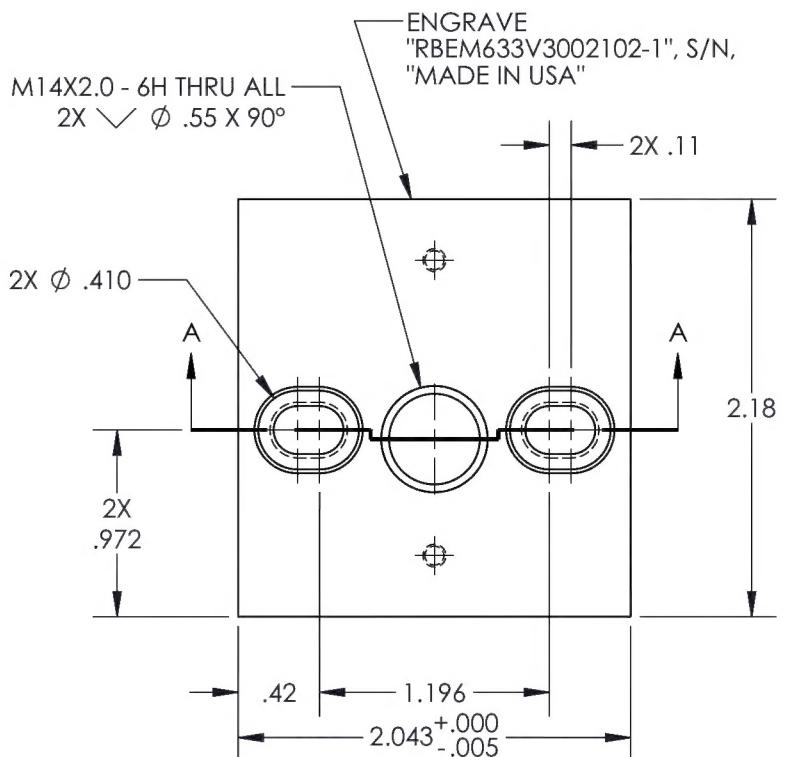


LATERAL ELASTOMERIC BEARING BOLT EXCHANGE

DART AEROSPACE	
TITLE ELASTOMERIC BEARING BOLT EXCHANGE	
DWG NO. RBEM633V3002102-1	REV 2
MATERIAL HEAT TREAT FINISH SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° X ± .1 SURFACES = 125 ✓	
DRAWN BY: CHECKED: OPPS APPR: QA APPR: APPROVED:	DUERFELDT CLOUGH ANDERSON LINDSAY GILBERT H175
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
SCALE 1:2	DATE 4/6/2016
SHEET 2 OF 16	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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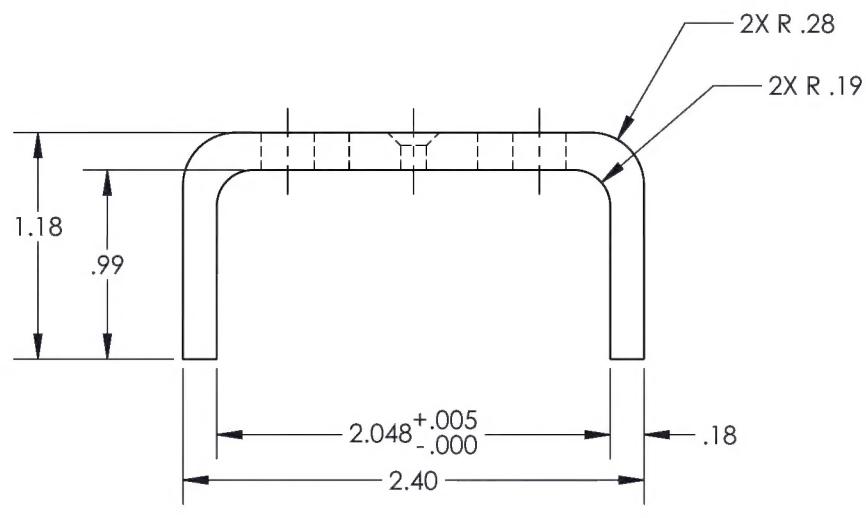
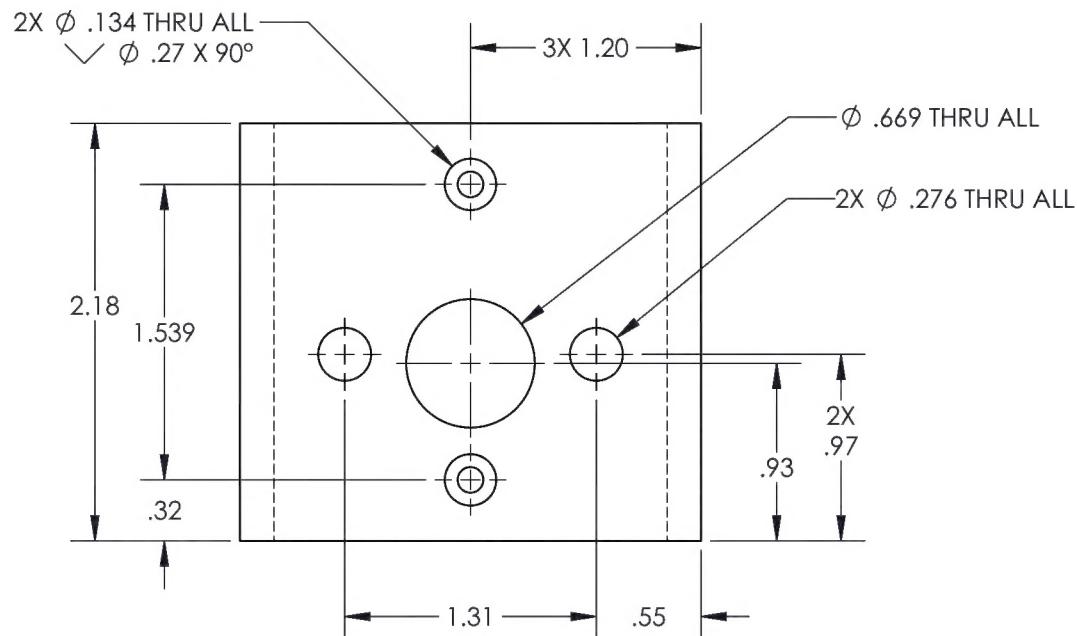


DART AEROSPACE	
TITLE ELASTOMERIC BEARING BOLT EXCHANGE	
DWG NO.	RBEM633V3002102-3
MAT'L	1018/1020 CR
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH	X ± .1 SURFACES = 125
SPEC	ASTM B633 TYPE I SC 2
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:1
DATE	4/6/2016
SHEET 3 OF 16	

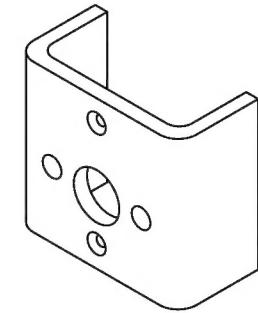
REV  
2

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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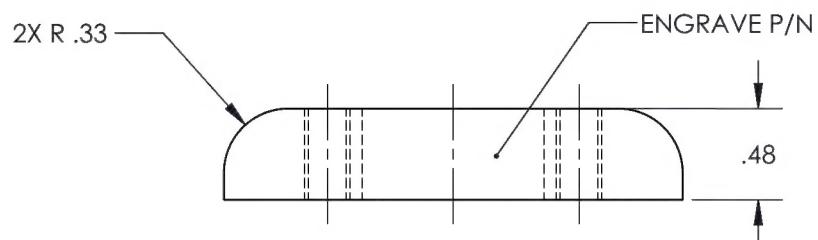
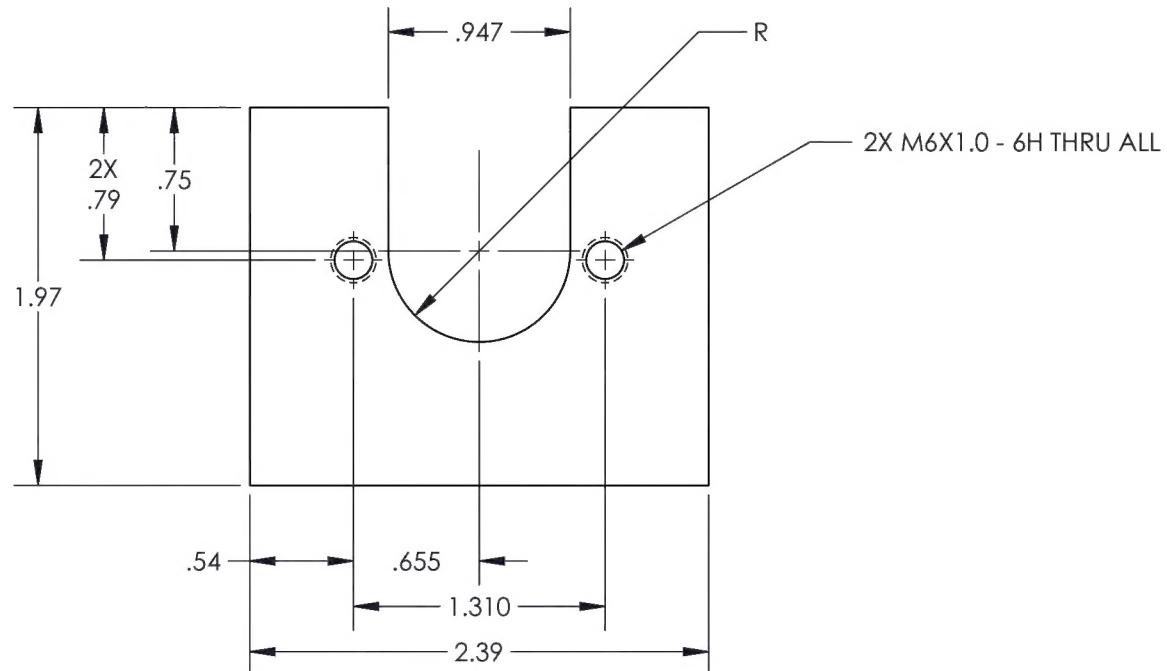
LATERAL PAD



<b>DART</b> AEROSPACE	
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>	
DWG NO. <b>RBEM633V3002102-5</b>	
REV <b>2</b>	
MATERIAL: WHITE DELRIN/ACETAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT: .XXX ± .005 FRACTIONS ± 1/8	
FINISH: .XX ± .01 ANGLES ± 5°	
SPEC: X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
H175	
SCALE	1:1
DATE	4/6/2016
SHEET 4 OF 16	

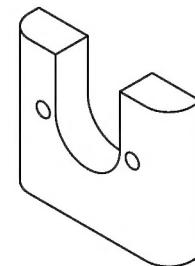
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LATERAL CLAMP PLATE

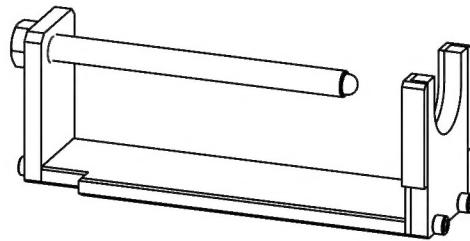
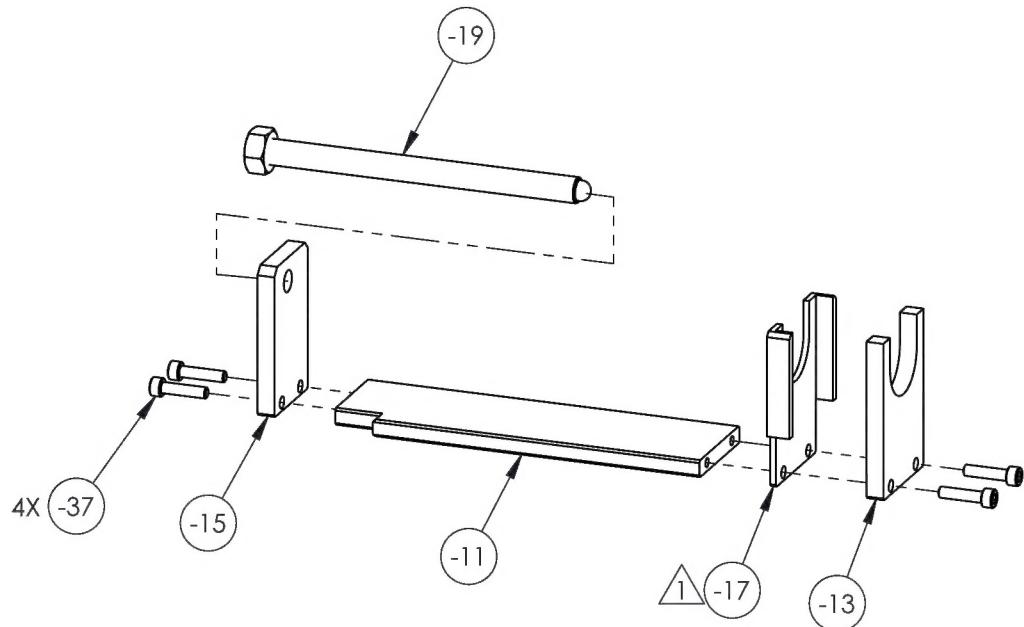
(7)



<b>DART</b> AEROSPACE	
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>	
DWG NO. <b>RBEM633V3002102-7</b>	
REV <b>2</b>	
MAT'L 6061	
HEAT	
TREAT	
FINISH CLEAR ANODIZE	
SPEC MIL-A-8625F, TYPE II, CLASS I	
DRAWN BY: DUERFELDT	
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:1	DATE 4/6/2016
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
H175	
SHEET 5 OF 16	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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NOTE:

△ USE APPROPRIATE ADhesive TO ATTACH  
-17 LONGITUDINAL PAD TO -13 LONGITUDINAL  
BASE PLATE.



TITLE  
**ELASTOMERIC BEARING BOLT EXCHANGE**

DWG NO. RBEM633V3002102-9 REV 2

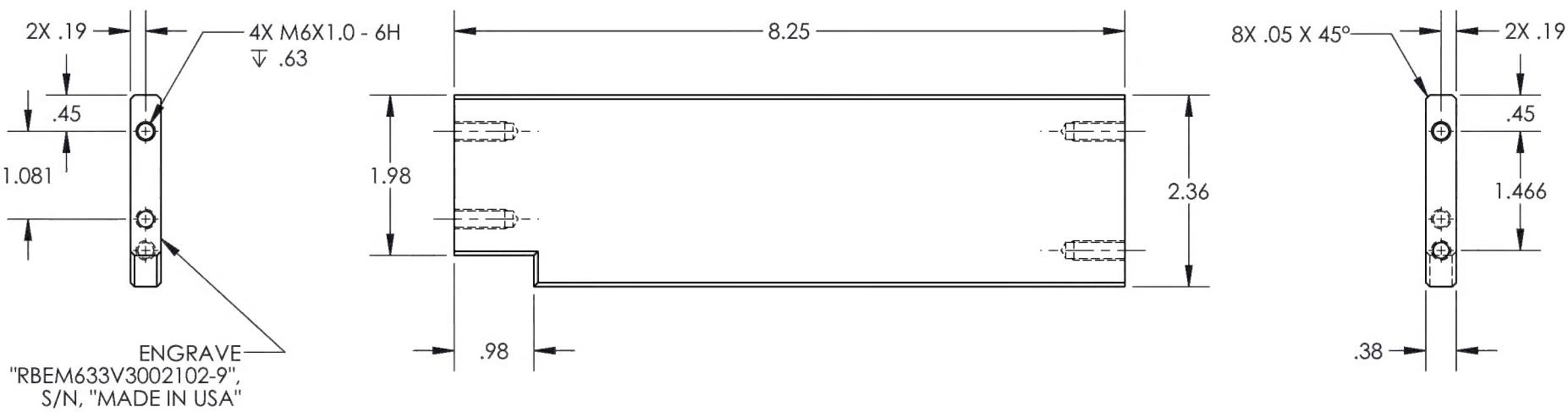
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX	± .005 FRACTIONS ± 1/8
TREAT	.XX	± .01 ANGLES ± 5°
FINISH	X	± .1 SURFACES = 125
SPEC		✓
DRAWN BY:	DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	H175
SCALE	1:4	DATE 4/6/2016
		SHEET 6 OF 16

(-9)

LONGITUDINAL ELASTOMERIC BEARING BOLT EXCHANGE

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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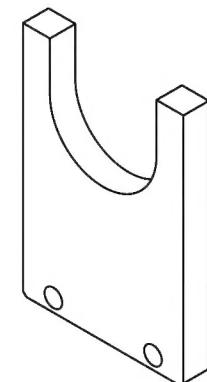
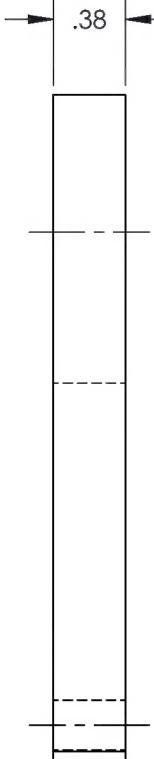
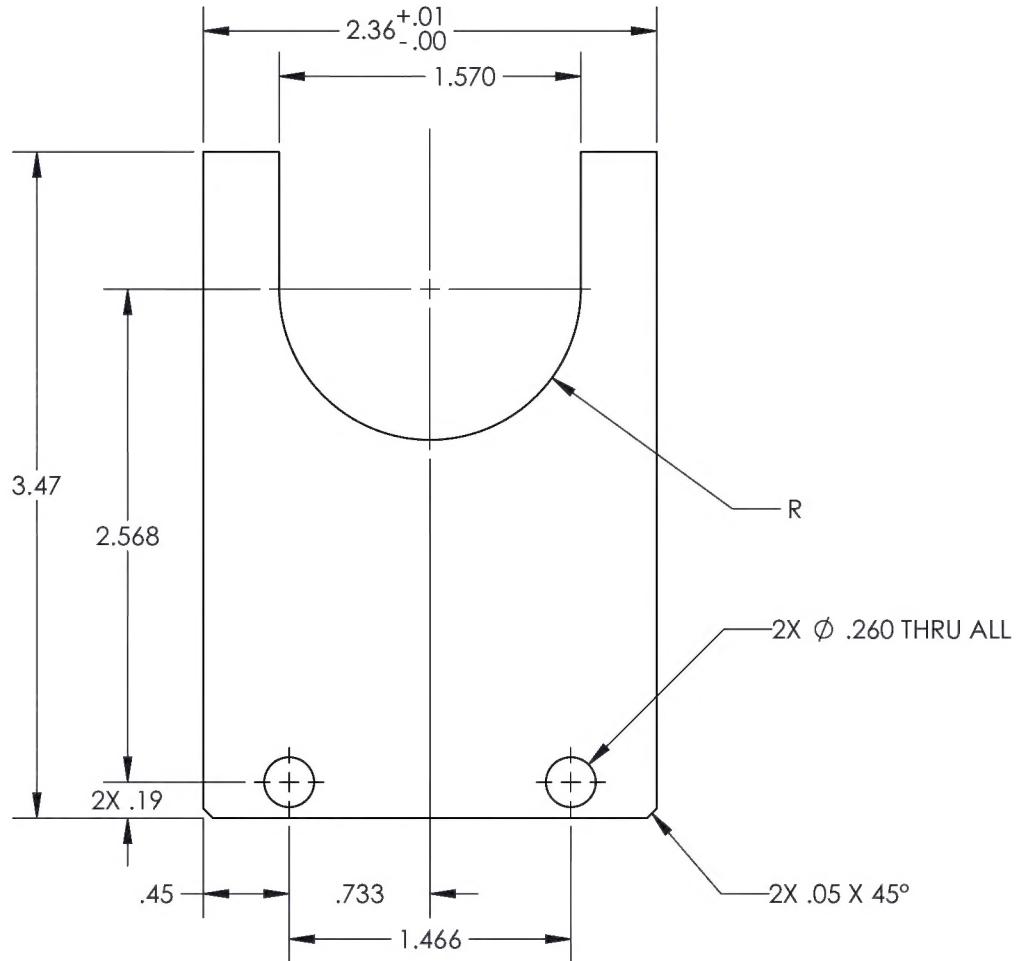
LONGITUDINAL BACK PLATE

-11

DART AEROSPACE	
TITLE ELASTOMERIC BEARING BOLT EXCHANGE	
DWG NO.	RBEM633V3002102-11
REV	2
MAT'L 1018/1020 CR UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT .XXX ± .005 FRACTIONS ± 1/8	
FINISH .XX ± .01 ANGLES ± 5°	
SPEC ZINC PLATE .X ± .1 SURFACES = 125	
ASTM B633 TYPE I SC 2 ✓	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE 1:2	DATE 4/6/2016
SHEET 7 OF 16	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
2	16-0180		-13 CH'D MAT'L WAS 1018/1020 CR IS A36/1018/1020 HR.						10/20/2016			DPD			JAG		



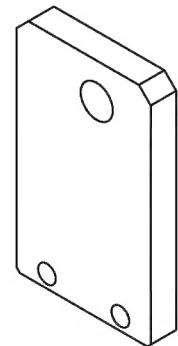
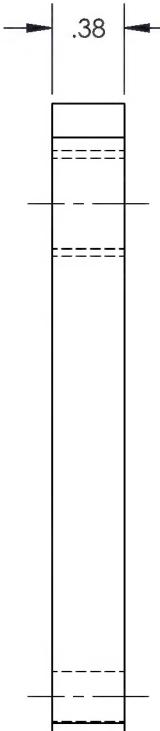
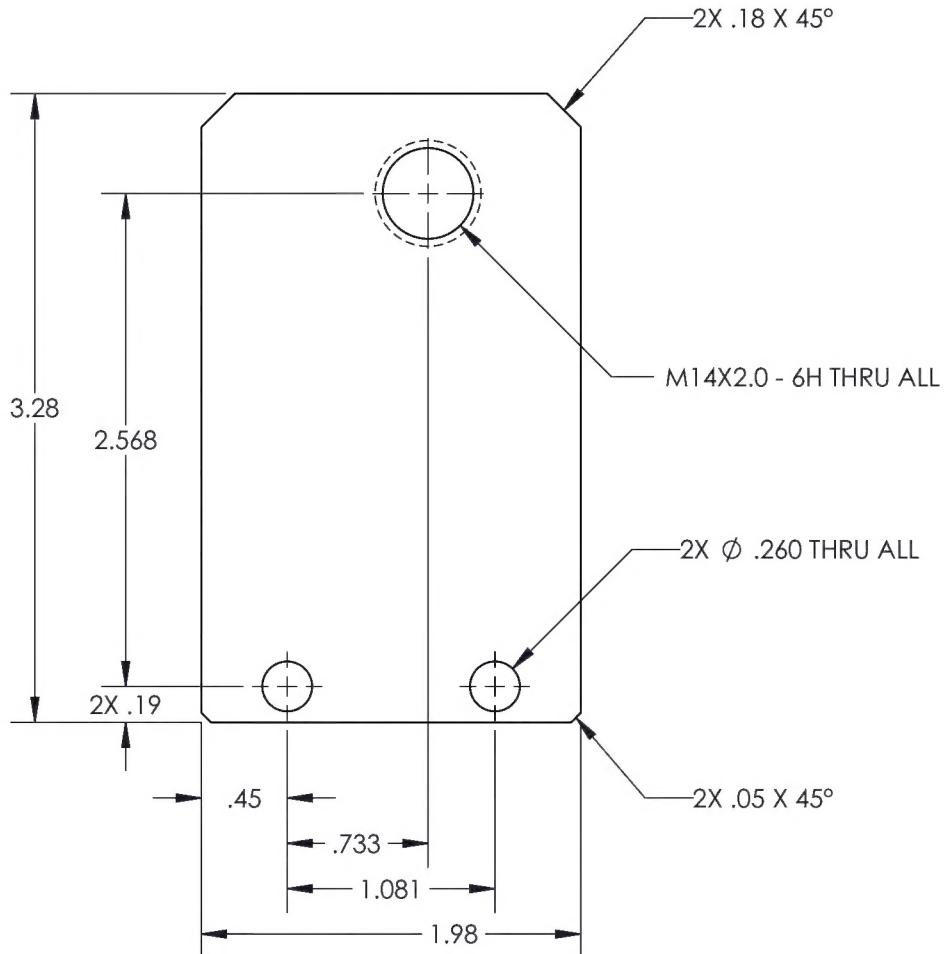
LONGITUDINAL BASE PLATE

(-13)

<b>DART</b> AEROSPACE	
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>	
DWG NO. <b>RBEM633V3002102-13</b>	
REV <b>2</b>	
MATERIAL A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT .XXX ± .005 FRACTIONS ± 1/8	
TREAT .XX ± .01 ANGLES ± 5°	
FINISH ZINC PLATE .X ± .1 SURFACES = 125 ✓	
SPEC ASTM B633 TYPE I SC 2	
DRAWN BY: DUERFELDT	
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	H175
SCALE 1:1	DATE 4/6/2016
SHEET 8 OF 16	

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REV			ECR			DESCRIPTION			REVISIONS		
2	16-0180	-15 CH'D MAT'L WAS 1018/1020 CR IS A36/1018/1020 HR.							DATE	INITIAL	APPROVED
									10/20/2016	DPD	JAG



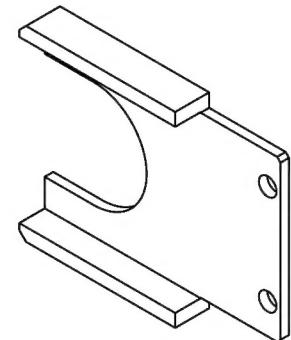
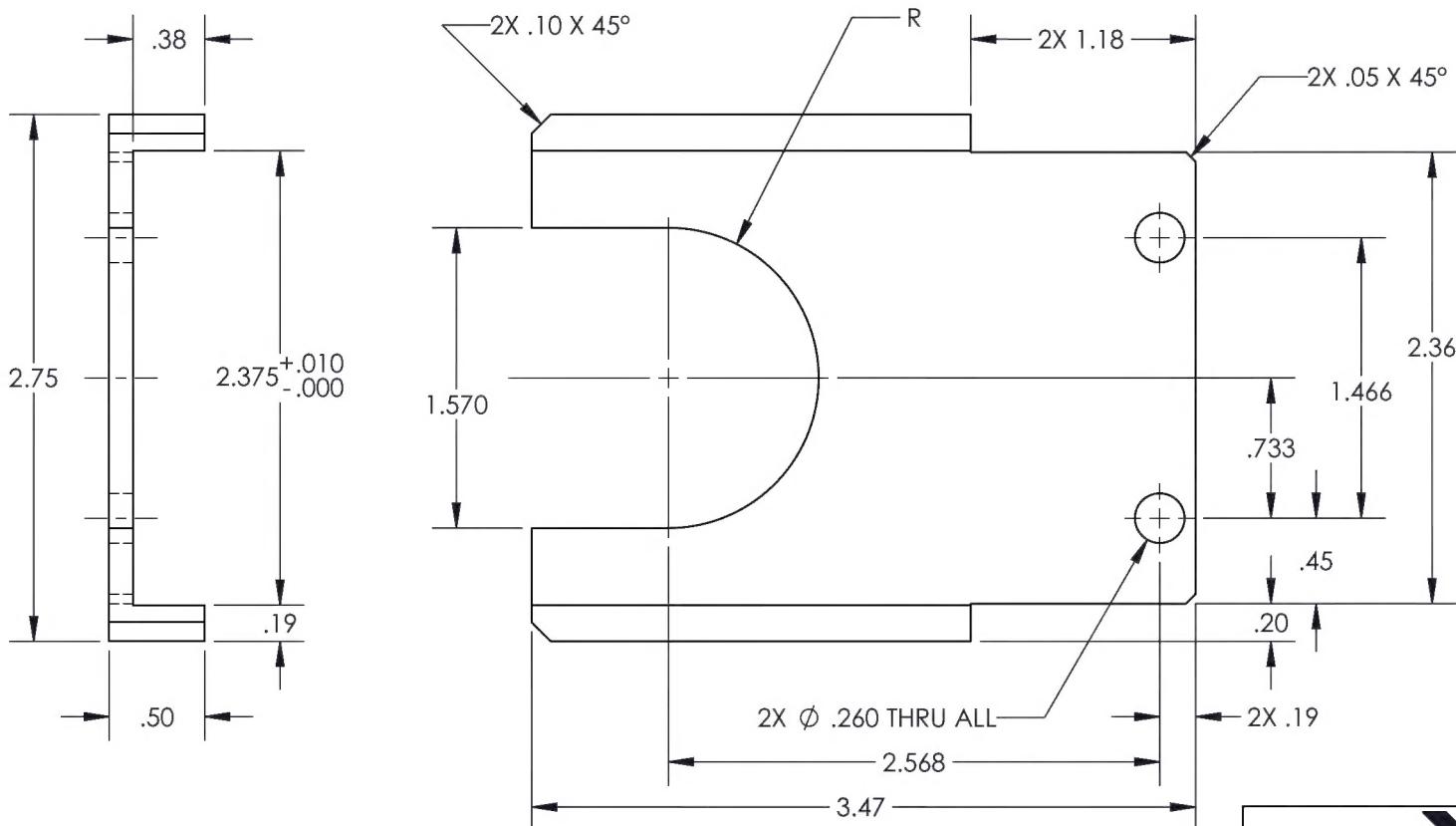
(-15)

LONGITUDINAL BOLT PLATE

<b>DART</b> AEROSPACE	
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>	
DWG NO. <b>RBEM633V3002102-15</b>	
REV <b>2</b>	
MATERIAL A36/1018/1020 HR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT	
FINISH ZINC PLATE	
SPEC ASTM B633 TYPE I SC 2	
DRAWN BY: DUERFELDT	
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:1	USED ON MODEL
DATE 4/6/2016	H175
SURFACES = 125	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
SHEET 9 OF 16	

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REV		ECR		DESCRIPTION			DATE	INITIAL	APPROVED
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**DART**  
AEROSPACE

TITLE  
ELASTOMERIC BEARING BOLT EXCHANGE

DWG NO. RBEM633V3002102-17 REV 2

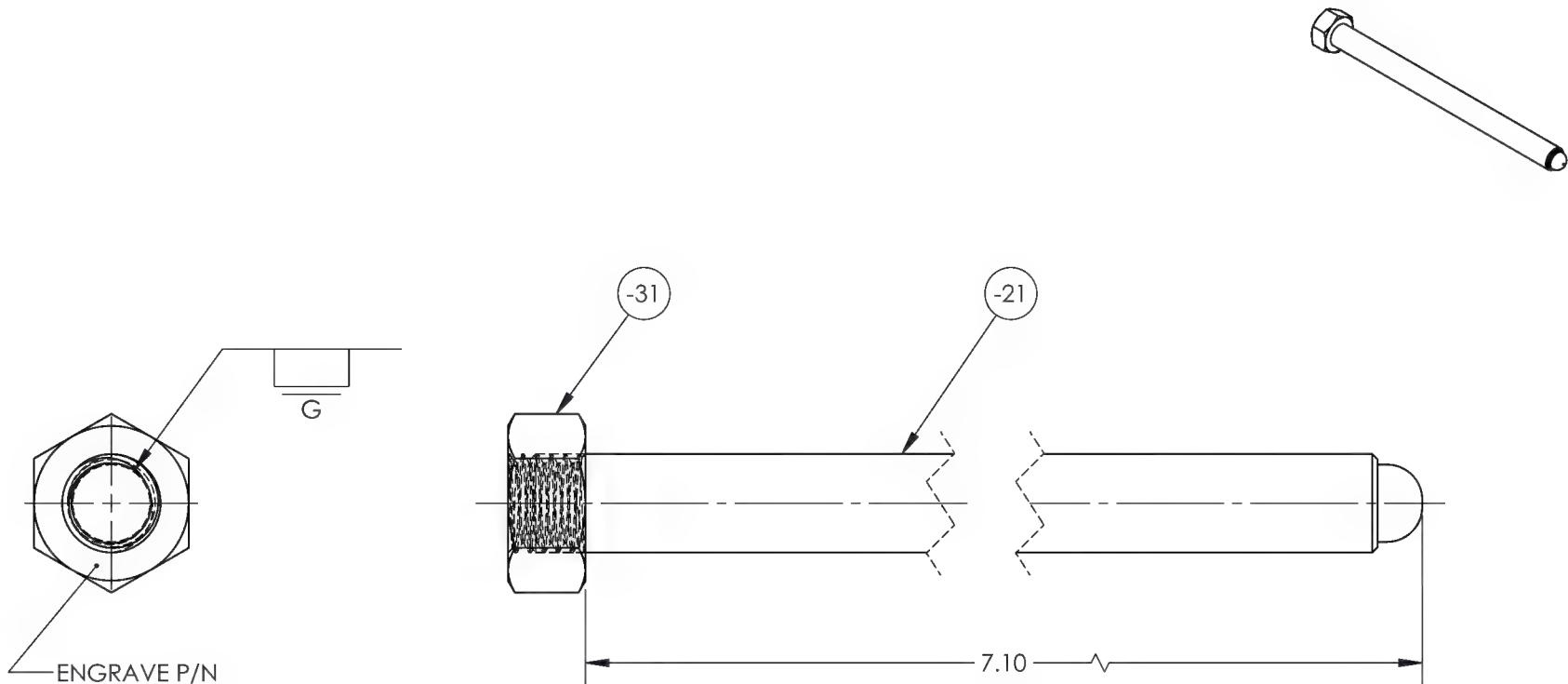
MAT'L	WHITE DELRIN/ACETAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	.XXX ± .005	FRACTIONS ± 1/8
TREAT	.XX ± .01	ANGLES ± 5°
FINISH	X ± .1	SURFACES = 125
SPEC		✓
DRAWN BY:	DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	H175
SCALE	1:1	DATE 4/6/2016
		SHEET 10 OF 16

(-17)

LONGITUDINAL PAD

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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL APPROVED



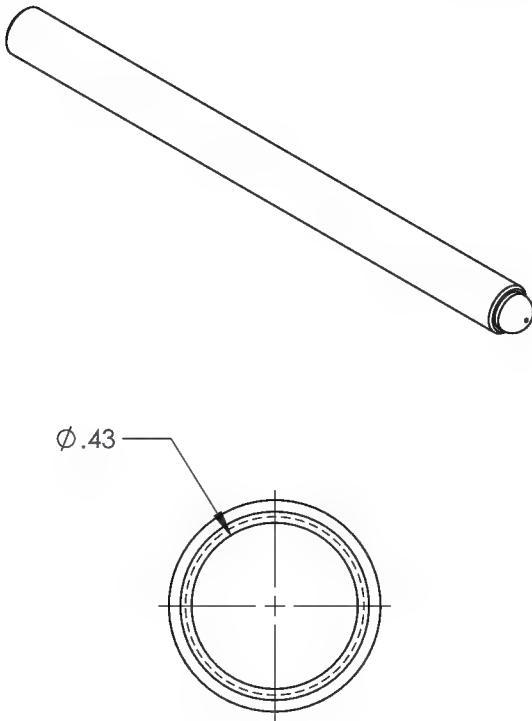
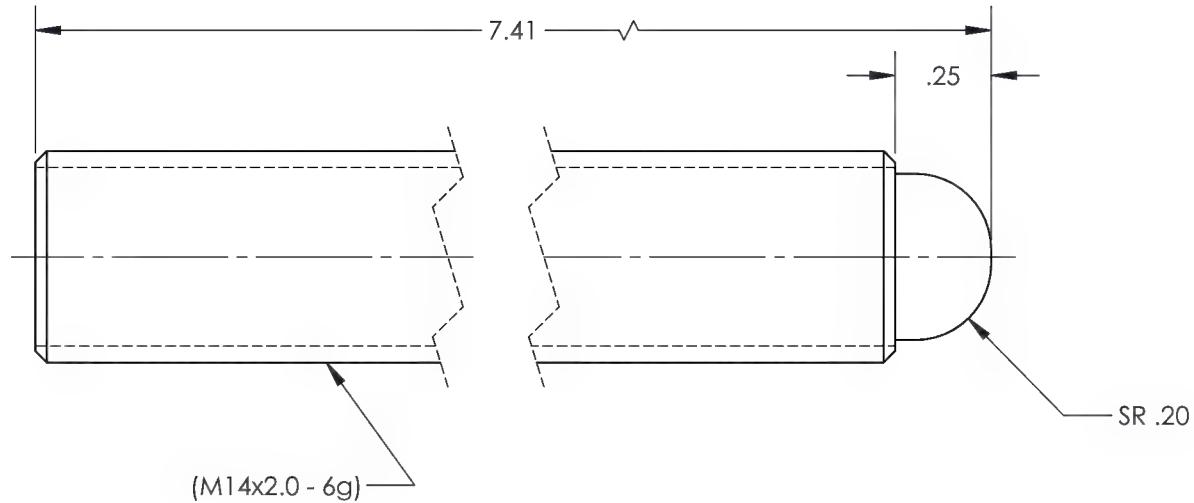
-19

BOLT

<b>DART</b> AEROSPACE	
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>	
DWG NO. <b>RBEM633V3002102-19</b>	
REV <b>2</b>	
MAT'L	
HEAT	
TREAT	
FINISH ZINC PLATE	
SPEC ASTM B633 TYPE I SC 2	
DRAWN BY:	<b>DUERFELDT</b>
CHECKED BY:	<b>CLOUGH</b>
OPPS APPR:	<b>ANDERSON</b>
QA APPR:	<b>LINDSAY</b>
APPROVED:	<b>GILBERT</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
H175	
SCALE <b>1:1</b>	DATE <b>4/6/2016</b>
SHEET 11 OF 16	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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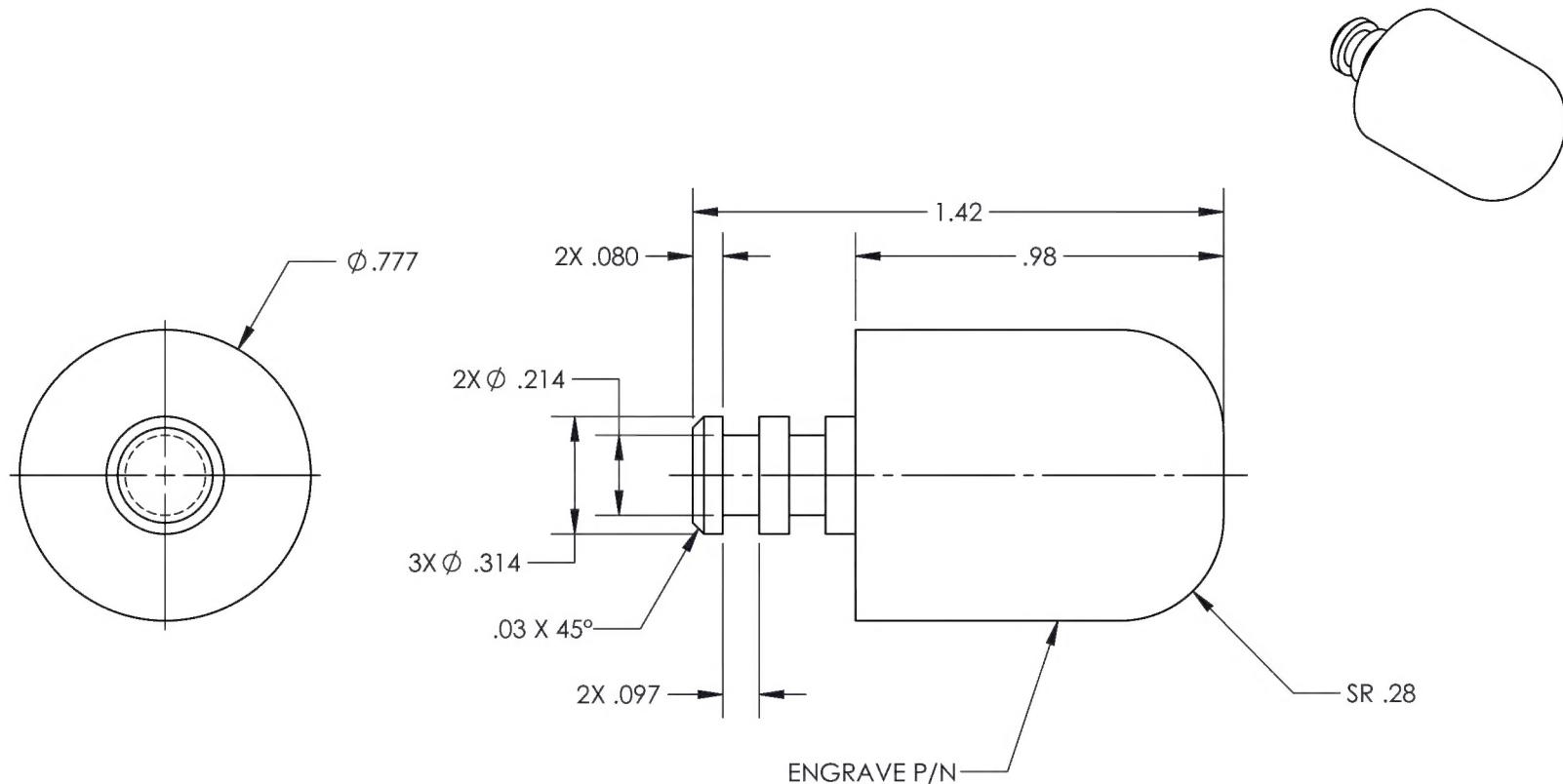
DART AEROSPACE	
TITLE ELASTOMERIC BEARING BOLT EXCHANGE	
DWG NO. RBEM633V3002102-21	REV 2
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUERFELDT	USED ON MODEL
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	H175
APPROVED: GILBERT	
SCALE 2:1	DATE 4/6/2016
SHEET 12 OF 16	

(21)

THREADED ROD

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REV		ECR		DESCRIPTION			DATE	INITIAL	APPROVED
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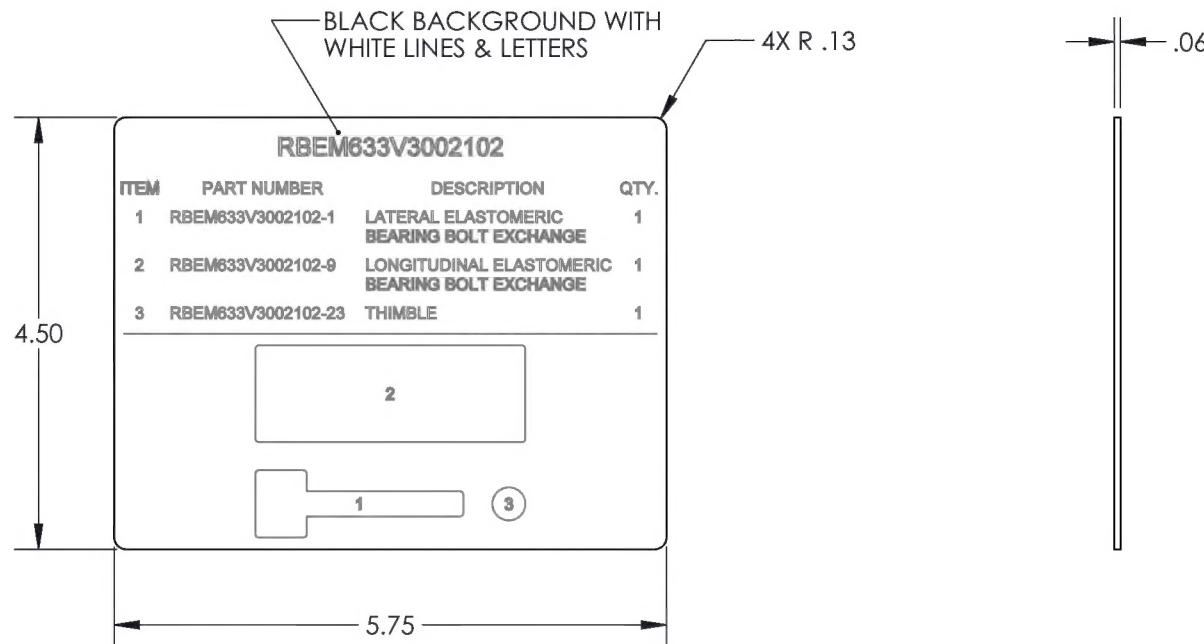


(-23)  
THIMBLE

<b>DART</b> AEROSPACE	
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>	
DWG NO. <b>RBEM633V3002102-23</b> REV <b>2</b>	
MAT'L 6061 UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT FRACTIONS $\pm \frac{1}{16}$ FINISH ANGLES $\pm 5^\circ$ CLEAR ANODIZE SURFACES = 125 SPEC MIL-A-8625F, TYPE II, CLASS I DRAWN BY: DUERFELDT CHECKED: CLOUGH OPPS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT USED ON MODEL H175 SCALE 2:1 DATE 4/6/2016 SHEET 13 OF 16	
.XXX $\pm .005$ .XX $\pm .01$ X $\pm .1$ .015 x 45° OR .015R	
1. BREAK ALL SHARP EDGES 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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NOTE:  
USE PDF.



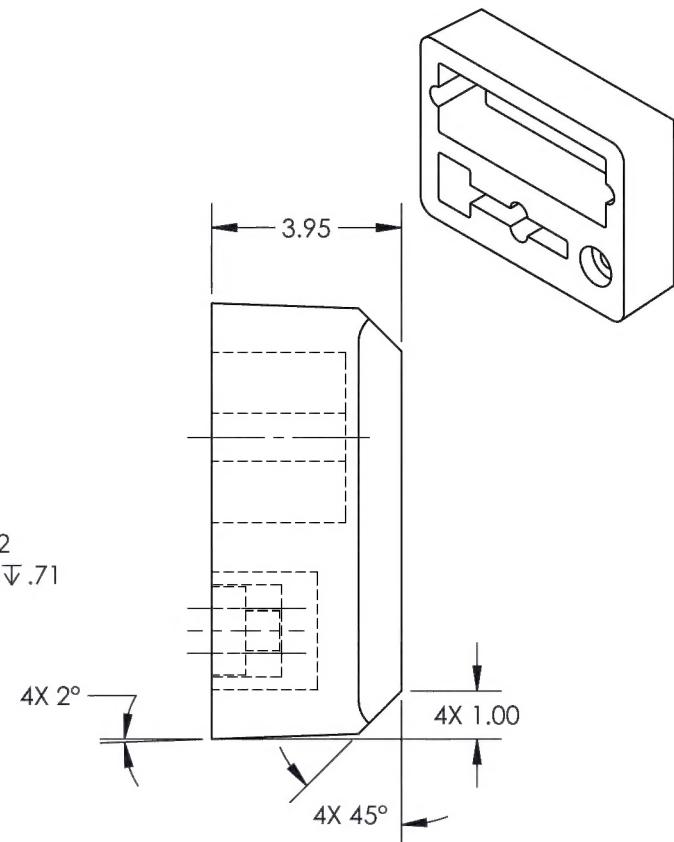
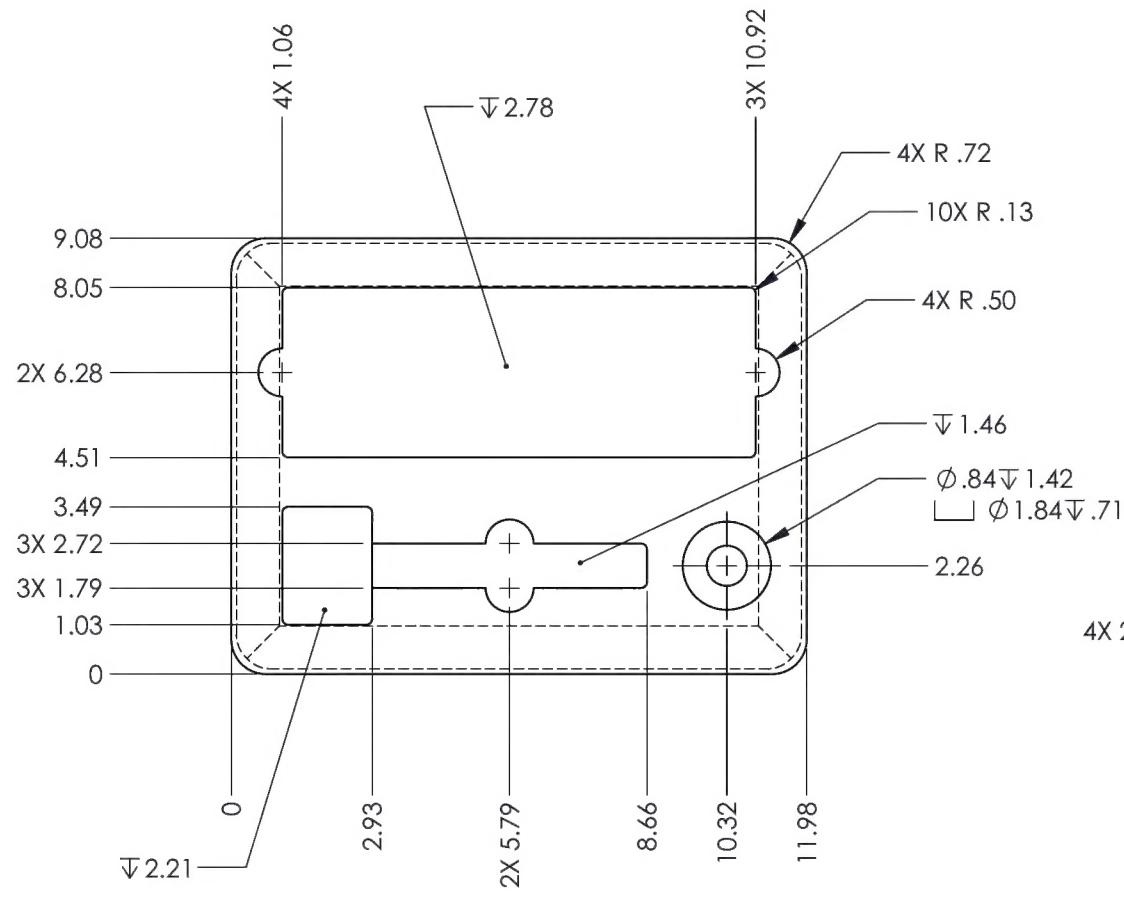
TITLE <b>ELASTOMERIC BEARING BOLT EXCHANGE</b>		REV <b>2</b>
DWG NO. <b>RBEM633V3002102-25</b>		
MATERIAL PLASTIC HEAT TREAT FINISH SPEC		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° X ± .1 SURFACES = 125 ✓
DRAWN BY: <b>DUERFELDT</b>	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: <b>CLOUGH</b>	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: <b>ANDERSON</b>	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: <b>LINDSAY</b>	USED ON MODEL	
APPROVED: <b>GILBERT</b>	H175	
SCALE 1:2	DATE 4/6/2016	SHEET 14 OF 16

(-25)

PLACARD

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REV			ECR			DESCRIPTION			REVISIONS		
2	16-0180		-27 DELETED DIM 4X R.72. ADDED DIMS 4X 1.00, 4X 45°. CH'D MATL WAS Y-20, BLACK IS ETHAFOAM 220, BLACK.			DATE		INITIAL	APPROVED		
10/20/2016	DPD	JAG									



**DART**  
AEROSPACE

TITLE  
ELASTOMERIC BEARING BOLT EXCHANGE

DWG NO. RBEM633V3002102-27

REV 2

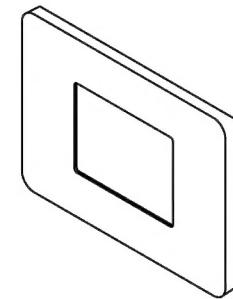
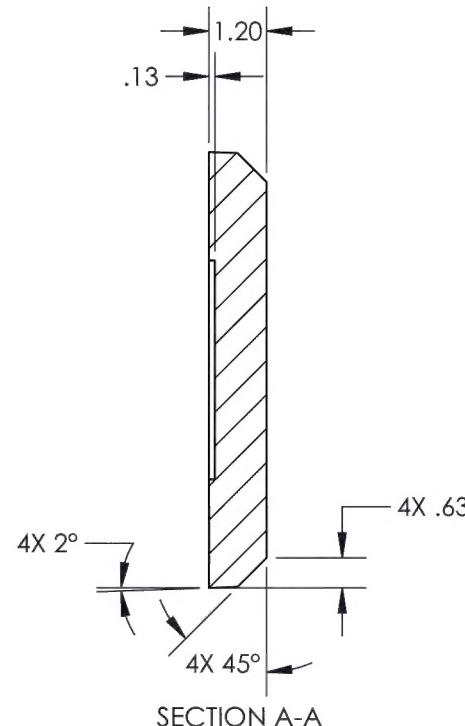
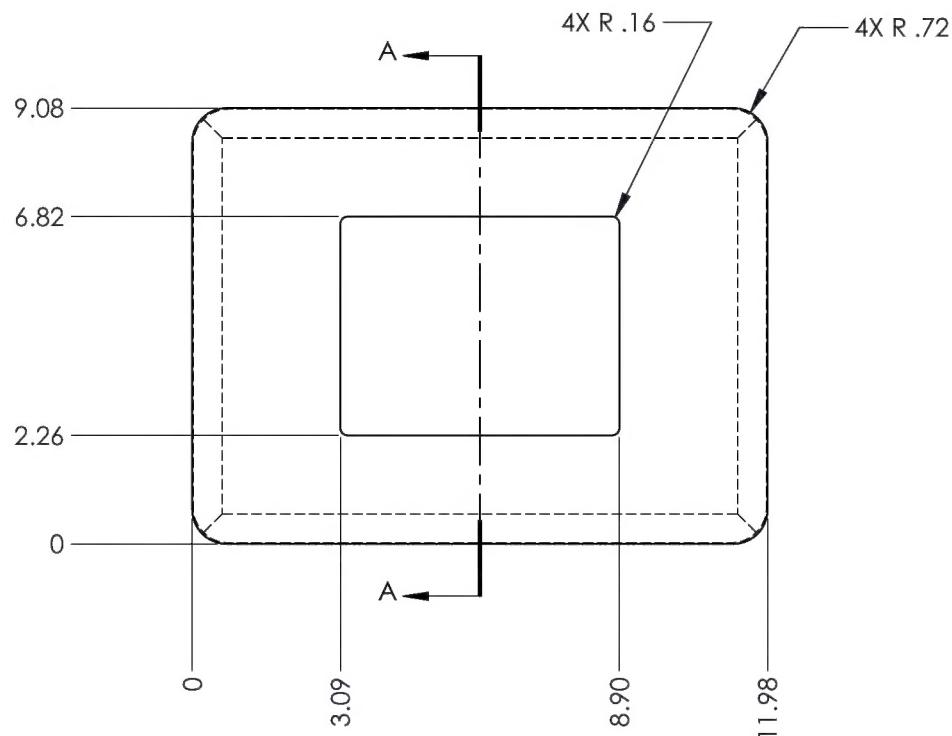
MAT'L	ETHAFOAM 220, BLACK	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .010	FRACTIONS ± 1/8
FINISH	.XX ± .03	ANGLES ± 1°
SPEC	X ± .1	SURFACES = 125 ✓
DRAWN BY:	DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	H175
SCALE	1:4	DATE 4/6/2016
		SHEET 15 OF 16

(-27)

BOTTOM FOAM

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0180	-29 DELETED DIM 4X R.45. ADDED DIMS 4X .63, 4X 45°. CH'D MATL WAS Y-20, BLACK IS ETHAFOAM 220, BLACK.	10/20/2016	DPD	JAG



TOP FOAM

(-29)

<b>DART</b> AEROSPACE	
<b>TITLE</b> ELASTOMERIC BEARING BOLT EXCHANGE	
DWG NO.	RBEM633V3002102-29
REV	2
MAT'L	ETHAFOAM 220, BLACK
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY:	X ± .1 SURFACES = 125 ✓
CHECKED:	1. BREAK ALL SHARP EDGES
OPPS APPR:	.015 x 45° OR .015R
QA APPR:	2. DIMENSIONAL LIMITS APPLY
APPROVED:	AFTER PLATING
	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE	USED ON MODEL
DATE	H175
4/6/2016	
SHEET	16 OF 16